

INTERNATIONAL SEARCH REPORT

International Application No

PCT/103/02834

A. CLASSIFICATION OF SUBJECT MATTER
 IPC 7 G11B20/00 G06K19/07

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHEDMinimum documentation searched (classification system followed by classification symbols)
 IPC 7 G11B G06K

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	PATENT ABSTRACTS OF JAPAN vol. 016, no. 386 (P-1404), 18 August 1992 (1992-08-18) -& JP 04 124788 A (FUJITSU LTD), 24 April 1992 (1992-04-24) abstract ---	1,11,15, 16
A	PATENT ABSTRACTS OF JAPAN vol. 016, no. 463 (P-1428), 25 September 1992 (1992-09-25) -& JP 04 165583 A (YAMATAKE HONEYWELL CO LTD), 11 June 1992 (1992-06-11) abstract --- -/-	1,11,15, 16

Further documents are listed in the continuation of box C.

Patent family members are listed in annex.

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Date of the actual completion of the international search

29 September 2003

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 5 499 017 A (BEIGEL MICHAEL L) 12 March 1996 (1996-03-12) abstract column 1, line 5 -column 2, line 44 column 6, line 39 - line 63 -----	1, 11, 15, 16
A	EP 0 809 245 A (TEXAS INSTRUMENTS INC) 26 November 1997 (1997-11-26) the whole document -----	1, 11, 15, 16
A	EP 0 849 734 A (TEXAS INSTRUMENTS INC) 24 June 1998 (1998-06-24) the whole document -----	1, 11, 15, 16

INTERNATIONAL SEARCH REPORT

Internat Application No
PCT/03/02834

Patent document cited in search report	Publication date	Patent family member(s)		Publication date
JP 04124788	A 24-04-1992	NONE		
JP 04165583	A 11-06-1992	NONE		
US 5499017	A 12-03-1996	AT 220816 T AU 665797 B2 DE 69232683 D1 DE 69232683 T2 DK 615645 T3 EP 0615645 A1 JP 7504771 T		15-08-2002 18-01-1996 22-08-2002 27-03-2003 11-11-2002 21-09-1994 25-05-1995
EP 0809245	A 26-11-1997	DE 69711755 D1 DE 69711755 T2 EP 0809245 A2 JP 10075198 A US 5905798 A		16-05-2002 14-11-2002 26-11-1997 17-03-1998 18-05-1999
EP 0849734	A 24-06-1998	DE 69720938 D1 EP 0849734 A2 JP 10228727 A US 6198875 B1		22-05-2003 24-06-1998 25-08-1998 06-03-2001